

LEGEND

ALLUVIAL AND GLACIAL DEPOSITS

- Qag**
- FELSIC TO INTERMEDIATE HYPABYSSAL INTRUSIVES**
Small, irregular feldspar porphyry plugs and stocks of andesite to quartz latite composition
- TCG**
- CONGLOMERATE**
Pebble to boulder conglomerate with mudstone and siltstone matrix; very poorly sorted, well-rounded clasts comprise most units in the area; deposited on apparent unconformity in Valdez group schists

NORTH OF THE BORDER RANGES FAULT

- GABBROIC TECTONIC MELANGE**
Blocks of Jg, Jtk, KJqd, Km sm, and others (?) floating in a cataclastic matrix of gabbro and serpentine; locally intruded by Ti
- TKgm**
- McHUGH COMPLEX**
Sedimentary melange (locally less disturbed); chert, argillite, tuff, massive and pillow greenstone; minor gabbro, sandstone, and marble; metamorphosed to prehnite-pumpellyite grade

- MATANUSKA FORMATION**
Marine sedimentary rocks, largely siltstone, sandstone, claystone, and conglomerate; may locally include non-Matanuska sedimentary rocks
- Kjs**

- INTERMEDIATE INTRUSIVES**
Quartz diorite, diorite, and trondjemite stocks and plutons with abundant fine-grained mafic dikes
- KJqd**

- TALKEETNA FORMATION**
Marine and non-marine pyroclastic rocks and lavas of predominantly intermediate composition; minor sandstone and argillite
- Jtk**

- GABBRO**
Layered two-pyroxene gabbro, hornblend gabbro, and leucogabbro; minor ultramafic, dioritic, and quartz dioritic rocks
- Jg**

- CONTACT**
dotted where inferred
- FAULT**
dotted where inferred; large dots where concealed and inferred from aeromagnetic survey
- THRUST FAULT**
dotted where inferred; teeth on upper plate

Note: Plafker et al. (1977) and Winkler et al. (1981) disagree in the location of the Border Ranges fault; this discrepancy has not been resolved in the literature.

1' X 3' SHEETS, ALASKA

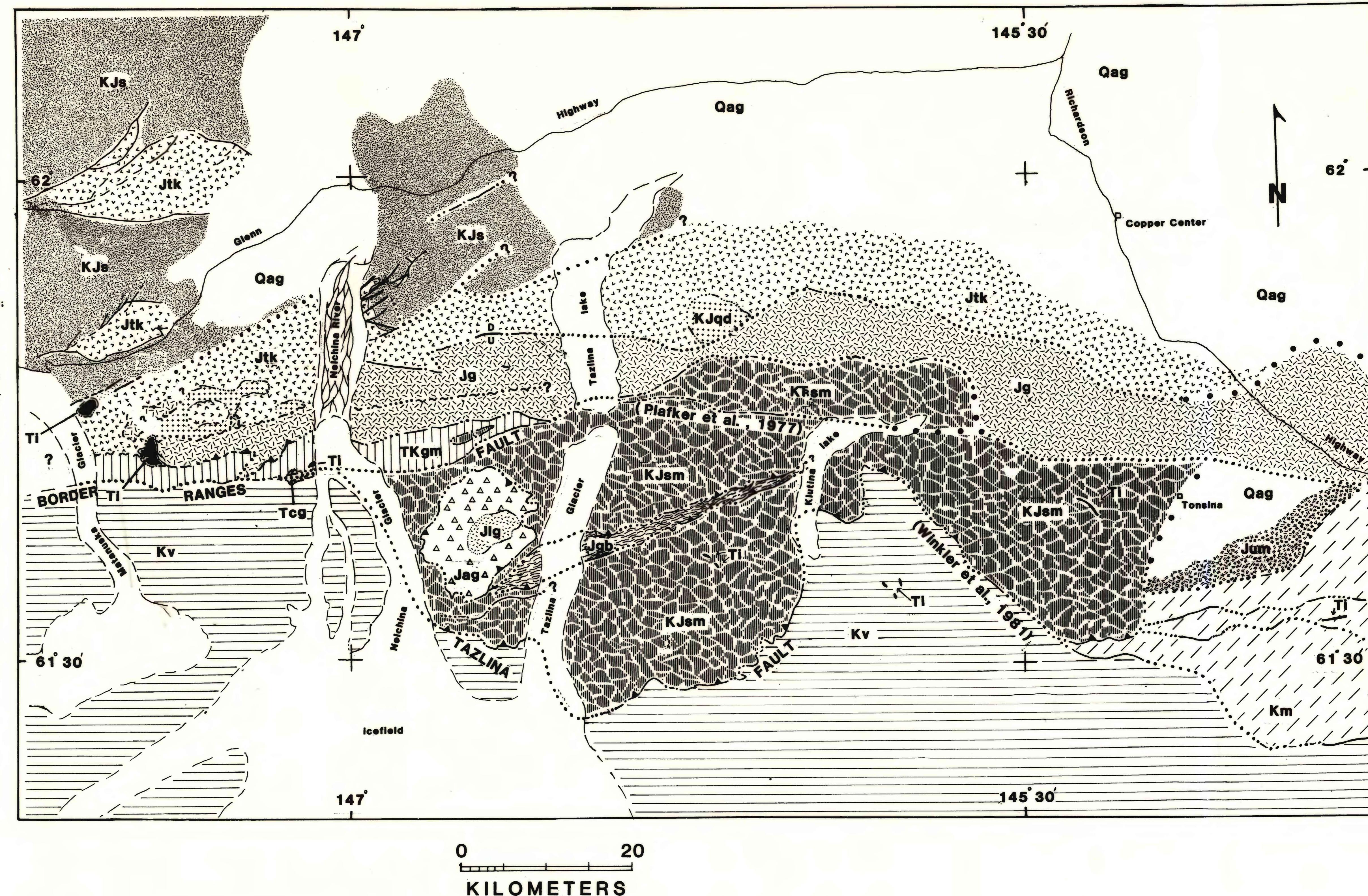


PLATE 1: GENERALIZED GEOLOGY OF THE N VALDEZ, NE TALKEETNA, AND SW GULKANA
1' X 3' SHEETS, ALASKA